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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/538,909	07/10/2005	Yeun Kwon Seo	114260-014	5146
	7590 12/18/200 & LLOYD, LLP	EXAMINER		
P.O. Box 1135	*	VO, HAI		
CHICAGO, IL 60690			ART UNIT	PAPER NUMBER
			1794	
			MAIL DATE	DELIVERY MODE
			12/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/538,909	SEO, YEUN KWON			
Office Action Summary	Examiner	Art Unit			
	Hai Vo	1794			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) ☐ Responsive to communication(s) filed on 13 Oct 2a) ☐ This action is FINAL . 2b) ☐ This 3) ☐ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) 1-9 and 17-23 is/are versions. 5) Claim(s) is/are allowed. 6) Claim(s) 10-16 and 24-31 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examines. 9) The specification is objected to by the Examines. 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the or	withdrawn from consideration. relection requirement. r. epted or b) □ objected to by the B				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/26/2006.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte			

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Election/Restrictions

 Applicant's election without traverse of Group II, claims 10-16 and 24-31 in the reply filed on 10/13/2007 is acknowledged.

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Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 3. Claims 12, 24, 27 and 30 are rejected under 35 U.S.C. 112, first paragraph, as based on a disclosure which is not enabling. The short fibers with a shape of a truss embedded in the foam layer by interlacing the short fibers through a needle punch is critical or essential to the practice of the invention, but not included in the claim(s) is not enabled by the disclosure. See *In re Mayhew*, 527 F.2d 1229, 188 USPQ 356 (CCPA 1976).
- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 5. Claims 13, 25, 28 and 31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. As the short fibers are comprised of a synthetic fiber and a natural fiber, it is unclear that the short fibers and the foamed material could have been made of the same material. It is suggested that the

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synthetic fiber and the foamed material made from the same resin material for purpose of clarity.

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Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 10-15, and 24-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Luciano et al (US 4,357,386) in view of Frank (US 5,093,967). Luciano teaches a composite papermaker felt made up of a needled bottom layer of staple fibers, a base layer 12, a particle foam layer 14 and a needled top layer of staple layer 12 as shown in figure 5. The foam layer includes of discrete polyethylene foam particles (column 3, lines 40-45). The staple fibers are composed of polyolefin fibers and jute fibers (column 3, lines 55-60). The base layer can be a multilayered woven material (column 3, lines 30-33). One of the layers of the multilayered woven material reads on Applicant's fabric. All of the layers are integrated and consolidated into a single uniform fabric by needling (column 4, lines 1-10, and 20-25). Luciano does not specifically disclose the staple fibers embedded in the foam layer in a shape of a truss. However, it appears that Luciano uses the same need punching to penetrate the fibers into the foam layer as Applicant, therefore, it is not

seen that the fibers could not have been embedded in the foam layer in a shape of a truss as set forth in the claims. Luciano does not teach that the polyolefin fiber is a combination of polypropylene fiber and polyethylene fiber. Frank, however, teaches the use of a needle-punch non-woven layer comprising 60-80 wt% polyethylene fibers and 20-40 wt% polypropylene fibers for increasing the adhesion bonding between the fiber layers and a substrate. Frank discloses that the polyethylene fibers are used as low melting point fibers and polypropylene fibers as reinforcing fibers. The polyethylene fibers are molten while leaving the polypropylene fibers unaffected when the material is run through an air thermal bonding oven, providing an improved adhesion strength between the fiber layer and the substrate (column 6, lines 45-65). That is reasonably pertinent to the particular problem with which the applicant was concerned. Applicant uses the fiber layer comprising the low melting point polyethylene fibers in combination with polypropylene fibers for increasing the adhesion strength between the foam and fiber layer. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to use polyolefin fibers that are a combination of polypropylene fibers and polyethylene fibers with a mixed ratio as taught by Frank motivated by the desire to provide an increased adhesion strength between the fiber layer and the foam layer.

Luciano as modified by Frank does not specifically disclose the processing steps as set forth in the claims. However, they are product-by-

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process limitations not as yet shown to produce a patentably distinct article. It is the examiner's position that the article of Luciano is identical to or only slightly different than the claimed article prepared by the method of the claim, because both articles are formed from the same materials, having structural similarity. Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-byprocess claim is the same as or an obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process. In re Thorpe, 227 USPQ 964, 966 (Fed. Cir. 1985). The burden has been shifted to the applicant to show unobvious differences between the claimed product and the prior art product. In re Marosi, 218 USPQ 289,291 (Fed. Cir. 1983). It is noted that if the applicant intends to rely on Examples in the specification or in a submitted Declaration to show non-obviousness, the applicant should clearly state how the Examples of the present invention are commensurate in scope with the claims and how the Comparative Examples are commensurate in scope with Luciano/Frank.

A preamble phrase "an automobile interior material" or "a construction sheet" is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the

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preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

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Allowable Subject Matter

8. Claims 16 and 29-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. One of skilled in the art would not be motivated to add to both sides of the papermakers felt a coating selected from the group consisting of plasters, cements and ceramic pigments in a predetermined thickness because to do so would defeat the objectives of Luciano.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hai Vo whose telephone number is (571) 272-1485. The examiner can normally be reached on Monday through Thursday, from 9:00 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on (571) 272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

HV

/Hai Vo/

Primary Examiner, Art Unit 1794